

## ABSTRACT

The invention relates to a control device (D) which is intended to control the temperature of first and second fluids formed by the lubricating oil of the heat engine (12) of the vehicle and the recirculated exhaust gases respectively. The inventive device (D) comprises a first heat transfer liquid / lubricating oil exchanger (14) and a second heat-transfer liquid / recirculated exhaust gases exchanger (16), said first and second exchangers being connected to the same heat transfer liquid circuit (10). Preferably, the heat-transfer liquid circuit (10) is connected to a heat source or a heat sink (18) comprising, for example, heat storage means (18) which can exchange heat with the heat-transfer liquid.